

Sequence Listing

<110> SJ BIOMED INC.

5 <120> Anti-obese immunogenic hybrid polypeptides and anti-obese vaccine
composition comprising the same

<160> 9

10 <170> KopatentIn 1.71

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<212> PRT

15 <213> Artificial Sequence

<220>

<223> mimetic peptide for apolipoprotein B-100 epitope

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<400> 1

Arg Asn Val Pro Pro Ile Phe Asn Asp Val Tyr Trp Ile Ala Phe

1 5 10 15

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<213> Artificial Sequence

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25 <210> 4
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<212> DNA
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30 <223> DNA sequence for tetrameric mimetic peptide

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<221> CDS

5 <222> (1)..(204)

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ttc ctc gac cgt aat gtt cct cct atc ttc aat gat gtt tat tgg att 96

Phe Leu Asp Arg Asn Val Pro Pro Ile Phe Asn Asp Val Tyr Trp Ile

15 20 25 30

gca ttc ctc gac cgt aat gtt cct cct atc ttc aat gat gtt tat tgg 144

Ala Phe Leu Asp Arg Asn Val Pro Pro Ile Phe Asn Asp Val Tyr Trp

35 40 45

20 att gca ttc ctc gac cgt aat gtt cct cct atc ttc aat gat gtt tat 192

Ile Ala Phe Leu Asp Arg Asn Val Pro Pro Ile Phe Asn Asp Val Tyr

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25 Trp Ile Ala Phe

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 Phe Leu Asp Arg Asn Val Pro Pro Ile Phe Asn Asp Val Tyr Trp Ile
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 Ala Phe Leu Asp Arg Asn Val Pro Pro Ile Phe Asn Asp Val Tyr Trp
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 15 Ile Ala Phe Leu Asp Arg Asn Val Pro Pro Ile Phe Asn Asp Val Tyr
 50 55 60
 Trp Ile Ala Phe
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 25 <213> Hepatitis B virus
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 30 <223> Hepatitis B virus preS2

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<221> terminator

<222> (178)..(180)

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1

5

10

15

10

gtg agg ggc cta tat ttt cct gct ggt ggc tcc agt tcc gga aca gta 96

Val Arg Gly Leu Tyr Phe Pro Ala Gly Gly Ser Ser Ser Gly Thr Val

20

25

30

15

aac cct gtt ccg act act gcc tca ccc ata tcg tca atc ttc tcg agg 144

Asn Pro Val Pro Thr Thr Ala Ser Pro Ile Ser Ser Ile Phe Ser Arg

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act ggg gac cct gca ccg aac ctc gag cgg tca taa 180

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Thr Gly Asp Pro Ala Pro Asn Leu Glu Arg Ser

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5	aag atc gtc gac cgt aat gtt cct cct atc ttc aat gat gtt tat tgg	96
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	20 25 30	
	att gca ttc ctc gac cgt aat gtt cct cct atc ttc aat gat gtt tat	144
10	Ile Ala Phe Leu Asp Arg Asn Val Pro Pro Ile Phe Asn Asp Val Tyr	
	35 40 45	
	tgg att gca ttc ctc gac cgt aat gtt cct cct atc ttc aat gat gtt	192
	Trp Ile Ala Phe Leu Asp Arg Asn Val Pro Pro Ile Phe Asn Asp Val	
15	50 55 60	
	tat tgg att gca ttc ctc gac cgt aat gtt cct cct atc ttc aat gat	240
	Tyr Trp Ile Ala Phe Leu Asp Arg Asn Val Pro Pro Ile Phe Asn Asp	
	65 70 75 80	
20		
	gtt tat tgg att gca ttc ctc gac atg cag tgg aac tcc acc aca ttc	288
	Val Tyr Trp Ile Ala Phe Leu Asp Met Gln Trp Asn Ser Thr Thr Phe	
	85 90 95	
25	cac caa gct ctg cta gat ccc aga gtg agg ggc cta tat ttt cct gct	336
	His Gln Ala Leu Leu Asp Pro Arg Val Arg Gly Leu Tyr Phe Pro Ala	
	100 105 110	
	ggt ggc tcc agt tcc gga aca gta aac cct gtt ccg act act gcc tca	384
30	Gly Gly Ser Ser Ser Gly Thr Val Asn Pro Val Pro Thr Thr Ala Ser	

	115	120	125	
	ccc ata tcg tca atc ttc tcg agg act ggg gac cct gca ccg aac ctc			432
	Pro Ile Ser Ser Ile Phe Ser Arg Thr Gly Asp Pro Ala Pro Asn Leu			
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	Glu Arg Ser			
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	20	25	30	
	Ile Ala Phe Leu Asp Arg Asn Val Pro Pro Ile Phe Asn Asp Val Tyr			
25	35	40	45	
	Trp Ile Ala Phe Leu Asp Arg Asn Val Pro Pro Ile Phe Asn Asp Val			
	50	55	60	
30	Tyr Trp Ile Ala Phe Leu Asp Arg Asn Val Pro Pro Ile Phe Asn Asp			

	65	70	75	80
	Val Tyr Trp Ile Ala Phe Leu Asp Met Gln Trp Asn Ser Thr Thr Phe			
	85	90	95	
5	His Gln Ala Leu Leu Asp Pro Arg Val Arg Gly Leu Tyr Phe Pro Ala			
	100	105	110	
	Gly Gly Ser Ser Ser Gly Thr Val Asn Pro Val Pro Thr Thr Ala Ser			
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 Lys Ile Val Asp Met Gln Trp Asn Ser Thr Thr Phe His Gln Ala Leu
 20 25 30

10 cta gat ccc aga gtg agg ggc cta tat ttt cct gct ggt ggc tcc agt 144
 Leu Asp Pro Arg Val Arg Gly Leu Tyr Phe Pro Ala Gly Gly Ser Ser
 35 40 45

15 tcc gga aca gta aac cct gtt ccg act act gcc tca ccc ata tcg tca 192
 Ser Gly Thr Val Asn Pro Val Pro Thr Thr Ala Ser Pro Ile Ser Ser
 50 55 60

atc ttc tcg aag act ggg gac cct gca ccg aac ctc gac cgt aat gtt 240
 20 Ile Phe Ser Lys Thr Gly Asp Pro Ala Pro Asn Leu Asp Arg Asn Val
 65 70 75 80

cct cct atc ttc aat gat gtt tat tgg att gca ttc ctc gac cgt aat 288
 Pro Pro Ile Phe Asn Asp Val Tyr Trp Ile Ala Phe Leu Asp Arg Asn
 25 85 90 95

gtt cct cct atc ttc aat gat gtt tat tgg att gca ttc ctc gac cgt 336
 Val Pro Pro Ile Phe Asn Asp Val Tyr Trp Ile Ala Phe Leu Asp Arg
 100 105 110

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aat gtt cct cct atc ttc aat gat gtt tat tgg att gca ttc ctc gac 384
 Asn Val Pro Pro Ile Phe Asn Asp Val Tyr Trp Ile Ala Phe Leu Asp
 115 120 125

5 cgt aat gtt cct cct atc ttc aat gat gtt tat tgg att gca ttc t 430
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Leu Asp Pro Arg Val Arg Gly Leu Tyr Phe Pro Ala Gly Gly Ser Ser
 25 35 40 45

Ser Gly Thr Val Asn Pro Val Pro Thr Thr Ala Ser Pro Ile Ser Ser
 50 55 60

30 Ile Phe Ser Lys Thr Gly Asp Pro Ala Pro Asn Leu Asp Arg Asn Val

	65	70	75	80
	Pro Pro Ile Phe Asn Asp Val Tyr Trp Ile Ala Phe Leu Asp Arg Asn			
		85	90	95
5	Val Pro Pro Ile Phe Asn Asp Val Tyr Trp Ile Ala Phe Leu Asp Arg			
	100	105	110	
	Asn Val Pro Pro Ile Phe Asn Asp Val Tyr Trp Ile Ala Phe Leu Asp			
10	115	120	125	
	Arg Asn Val Pro Pro Ile Phe Asn Asp Val Tyr Trp Ile Ala Phe			
	130	135	140	
15				